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1 [Contents of the Computer Communication Review 1970–1994](#)



David Oran

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.75 MB)

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2 [Risks to the public](#)



P. G. Neumann

July 1987 **ACM SIGSOFT Software Engineering Notes**, Volume 12 Issue 3

Publisher: ACM Press

Full text available: pdf(1.44 MB)

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3 [Bibliography of recent publication in computer networking](#)

July 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(2.53 MB)

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4 [Trading packet headers for packet processing](#)



Girish P. Chandranmenon, George Varghese

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In high speed networks, packet processing is relatively expensive while bandwidth is cheap. Thus it pays to add information to packet headers to make packet processing easier. While this is an old idea, we describe several specific new mechanisms based on this principle. We describe a new technique, *source hashing*, which can provide $O(1)$ lookup costs at the Data Link, Routing, and Transport layers. Source hashing is especially

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	11931	713/189-194.ccls. or 726/26-30, 34-35.ccls. or 705/50-51,55-56.ccls. or 380/255,259,264,42-43,277,44, 28-30.ccls. or 711/100,163-164.ccls.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:48
S2	4310	S1 and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:49
S3	168	("bus to bus" or "bus-to-bus") with (bridge)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:49
S4	750	bridge with (checksum or md\$1 or hash\$3)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:49
S5	1	S3 and S4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:52
S6	24	S4 and (key with (checksum or md\$1 or hash\$3))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 16:52
S7	4	S6 and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:11
S8	2184	(bridge) with (identif\$7 or determin\$3) with (med\$3 or storag\$3 or drive or register or flash or memory or rom or ram)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:31

EAST Search History

S9	879	S8 and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:31
S10	8	S9 and S2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:13
S11	2649	(bridge) with (identif\$7 or determin\$3) with (med\$3 or storag\$3 or drive or register or flash or memory or rom or ram or port)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:31
S12	34	S11 and S4	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:32
S13	11	S12 and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:03
S14	2	"6857076".pn.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 17:49
S15	24685	((ISA or PCI or bus) adj\$1 to adj\$1 (ISA or PCI or bus)) with bridge	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:04
S16	54	S15 and (bridge with (checksum or hash or md\$1))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:04

EAST Search History

S17	2277	710/100,104,305,306,311-316.ccls. and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:05
S18	6550	S17 or S2	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:05
S19	1	S16 and S18	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:07
S20	328	(bridge with (identify\$3 or identification or determin\$3) with (media or drive or memory or register of flash or rom or ram) with (sav\$3 or stor\$3))	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:08
S21	164	S20 and @ad<"19990326"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:08
S22	38	S18 and S21	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2006/03/05 18:08

File 347:JAPIO Nov 1976-2005/Nov(Updated 060302)

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File 350:Derwent WPIX 1963-2006/UD,UM &UP=200615

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Set	Items	Description
S1	160327	BRIDGE OR BRIDGES OR BRIDGING
S2	162816	BUS OR BUSES OR BUSSES
S3	1163	ISA OR INDUSTRY()STANDARD()ARCHITECTURE
S4	4037	PCI OR PERIPHERAL()COMPONENT()INTERCONNECT? ?
S5	43850	CHECKSUM? ? OR CHECK()SUM? ? OR ALGORITHM? ? OR HASH??? OR MESSAGE()DIGEST? ?
S6	261976	ENCRYPT??? OR ENCIPHER???? OR ENCRYPTER???? OR CYPHER??? OR CIPHER??? OR KEY? ?
S7	6764	S6(3N) (VERIFY??? OR VERIFIE? ? OR VERIFICATION OR VALIDAT? - ?? OR CONFIRM??? OR CONFIRMATION OR CHECK??? OR CALCULAT???)
S8	3443330	LOCAT???? OR ADDRESS?? OR SPACE? ? OR AREA? ?
S9	7450098	DEVICE? ? OR MEDIA OR STORAGE? ? OR DISK? ? OR DISC? ? OR - DRIVE? ? OR HDD
S10	59707	(S8 OR S9) (3N) (IDENTIFIE? ? OR IDENTIFY??? OR IDENTIFICATI- ON OR DESCRIPTOR? ? OR POINTER? ? OR ID)
S11	0	S1 AND S2:S4 AND S5 AND S7 AND S10
S12	4	S1 AND (S5 OR S7) AND S10
S13	13	S1 AND S5 AND S6
S14	13	S13 NOT S12
S15	12	S14 NOT AD=19990326:20020326/PR
S16	7	S15 NOT AD=20020326:20060306/PR
S17	42	S1 AND S2:S4 AND S6
S18	26	S17 NOT AD=19990326:20020326/PR
S19	15	S18 NOT AD=20020326:20060306/PR
S20	15	S19 NOT (S12 OR S16)
S21	6	S20 AND IC=(G06F OR H04L)
S22	1268	S1 AND S6
S23	13	S22 AND S5
S24	6	S23 NOT (S12 OR S16 OR S21)
S25	5	S24 NOT AD=19990326:20020326/PR
S26	0	S25 NOT AD=20020326:20060306/PR
S27	13	S22 AND S10
S28	13	S27 NOT (S12 OR S16 OR S21)
S29	9	S28 NOT AD=19990326:20020326/PR
S30	6	S29 NOT AD=20020326:20060306/PR
S31	42	S22 AND S2:S4
S32	35	S31 NOT (S12 OR S16 OR S21 OR S28)
S33	19	S32 NOT AD=19990326:20020326/PR
S34	8	S33 NOT AD=20020326:20060306/PR

File 348:EUROPEAN PATENTS 1978-2006/Feb W04

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File 349:PCT FULLTEXT 1979-2006/UB=20060302,UT=20060223

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Set	Items	Description
S1	126242	BRIDGE OR BRIDGES OR BRIDGING
S2	133203	BUS OR BUSES OR BUSSES
S3	60172	ISA OR INDUSTRY() STANDARD() ARCHITECTURE
S4	17804	PCI OR PERIPHERAL() COMPONENT() INTERCONNECT? ?
S5	152033	CHECKSUM? ? OR CHECK() SUM? ? OR ALGORITHM? ? OR HASH??? OR MESSAGE() DIGEST? ?
S6	217691	ENCRYPT??? OR ENCIPHER???? OR ENCPYHER???? OR CYPHER??? OR CIPHER??? OR KEY? ?
S7	10715	S6(3N) (VERIFY??? OR VERIFIE? ? OR VERIFICATION OR VALIDAT? - ?? OR CONFIRM??? OR CONFIRMATION OR CHECK??? OR CALCULAT???)
S8	1407857	LOCAT???? OR ADDRESS?? OR SPACE? ? OR AREA? ?
S9	1569769	DEVICE? ? OR MEDIA OR STORAGE? ? OR DISK? ? OR DISC? ? OR - DRIVE? ? OR HDD
S10	101424	(S8 OR S9) (3N) (IDENTIFIE? ? OR IDENTIFY??? OR IDENTIFICATI- ON OR DESCRIPTOR? ? OR POINTER? ? OR ID)
S11	6	S1(S) S2:S4(S) S5(S) S7(S) S10
S12	35985	ENCRYPT??? OR ENCIPHER???? OR ENCPYHER???? OR CYPHER??? OR CIPHER???
S13	88	S1(S) S2:S4(S) S12
S14	26	S13(S) S5
S15	23	S14 NOT S11
S16	7	S15 NOT AD=19990326:20020326/PR
S17	2	S16 NOT AD=20020326:20060306/PR
S18	61	S1(S) S12(S) S5
S19	23	S18 NOT AD=19990326:20020326/PR
S20	7	S19 NOT AD=20020326:20060306/PR
S21	5	S20 NOT S17
S22	34	S1(S) S12(S) S10
S23	21	S22 NOT (S15 OR S18)
S24	11	S23 NOT AD=19990326:20020326/PR
S25	4	S24 NOT AD=20020326:20060306/PR

File 2:INSPEC 1898-2006/Feb W4
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 File 239:Mathsci 1940-2006/Apr
 (c) 2006 American Mathematical Society
 File 256:TecInfoSource 82-2006/Feb
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Set	Items	Description
S1	430475	BRIDGE OR BRIDGES OR BRIDGING
S2	192214	BUS OR BUSES OR BUSSES
S3	15892	ISA OR INDUSTRY() STANDARD() ARCHITECTURE
S4	18359	PCI OR PERIPHERAL() COMPONENT() INTERCONNECT? ?
S5	2414578	CHECKSUM? ? OR CHECK()SUM? ? OR ALGORITHM? ? OR HASH??? OR MESSAGE() DIGEST? ?
S6	957229	ENCRYPT??? OR ENCIPHER???? OR ENCPYPER???? OR CYPHER??? OR CIPHER??? OR KEY? ?
S7	5725	S6(3N)(VERIFY??? OR VERIFIE? ? OR VERIFICATION OR VALIDAT? - ?? OR CONFIRM??? OR CONFIRMATION OR CHECK??? OR CALCULAT???)
S8	8344438	LOCAT???? OR ADDRESS?? OR SPACE? ? OR AREA? ?
S9	5820993	DEVICE? ? OR MEDIA OR STORAGE? ? OR DISK? ? OR DISC? ? OR - DRIVE? ? OR HDD
S10	95958	(S8 OR S9)(3N)(IDENTIFIE? ? OR IDENTIFY??? OR IDENTIFICATI- ON OR DESCRIPTOR? ? OR POINTER? ? OR ID)
S11	0	S1 AND S2:S4 AND S5 AND S7 AND S10
S12	40802	ENCRYPT??? OR ENCIPHER???? OR ENCPYPER???? OR CYPHER??? OR CIPHER???
S13	2	S1 AND S2:S4 AND S12
S14	2	RD (unique items)
S15	117	S1 AND S12
S16	20	S15 AND S5
S17	18	RD (unique items)
S18	18	S17 NOT S14
S19	15	S18 NOT PY=2000:2006
S20	154	S1 AND (CHECKSUM? ? OR CHECK()SUM? ? OR HASH??? OR MESSAGE-) DIGEST? ?)
S21	0	S20 AND S10
S22	1	S20 AND S2:S4
S23	1	S15 AND S10